



Marion Arts and Environment Center at Lowe Park, Iowa

[http://216.70.110.99/news/archives/2008/08/marion\\_arts\\_and\\_environment\\_ce\\_1.php](http://216.70.110.99/news/archives/2008/08/marion_arts_and_environment_ce_1.php)

**Features:**

- 1) All storm water is processed through on site bioswales.
- 2) The land provides the heating and cooling of the facility through a geothermal heat pump system, which has reduced the facilities energy consumption by almost 40%.
- 3) Rainwater is collected in barrels and used on site.
- 4) Designed on an east – west axis to promote natural ventilation and maximize the structure's connection to the sun.'
- 5) The building envelop is designed with high-insulation values and energy-efficient windows.
- 6) Lighting controlled by occupancy and photocell sensors
- 7) The land processes waste water naturally through a wetlands septic system.
- 8) Roof insulation is created from waste wheat contained within structural insulated panels.
- 9) 85-90% of the building is daylit and ventilated or cooled with operable windows.
- 10) All landscaping is native species that require no additional water beyond typical rainfall.
- 11) It restored farmland to native Iowa prairie which is a diverse ecosystem indigenous to Iowa.